

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference insert	FOR FURTHER ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/NL2004/000724	15/10/2004	27/10/2003
Applicant DE GROOT, Martin Theodoor		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

- b. none of the figures is to be published with the abstract.

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International application No.

PCT/NL2004/000724

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A method for arranging a thermoplastic insert unit (2) in a thermoplastic sandwich product (1) having at least one planar or virtually planar section by the application of ultrasonic energy (6, 8). A thermoplastic sandwich product (1) comprises at least one fibrereinforced thermoplastic covering layer (7) and a thermoplastic core which is not completely solid (8). Examples of thermoplastic sandwich products include: a flat plate; a slightly curved product, a folded product etc. The production of a recess in the surface of the thermoplastic sandwich product, with the plastic insert unit being welded into the recess.

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International Application No PCT/NL2004/000724

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16B5/01 B29C65/08 //B29K105:02, B29K105:06, B29L9:00, B29L31:06
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B29C F16B
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
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EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 536 344 A (VAN DREUMEL WILLEM H M) 16 July 1996 (1996-07-16) cited in the application abstract; figures 1-7 -----	1-11
Y	DATABASE WPI Section Ch, Week 197938 Derwent Publications Ltd., London, GB; Class A35, AN 1979-68921B XP002290845 -& JP 54 101878 A (SEIDENSHA DENSHI KOGYO KK) 10 August 1979 (1979-08-10) abstract; figures -----	1-11
Y	DE 201 05 550 U (BRANSON ULTRASCHALL) 16 August 2001 (2001-08-16) page 6, lines 25-27; figure ----- -/-	1-11

<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.
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<input checked="" type="checkbox"/> Patent family members are listed in annex.
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* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

24 March 2005

Date of mailing of the international search report
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04/04/2005

Name and mailing address of the ISA

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Authorized officer

Cordenier, J

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International Application No PCT/NL2004/000724

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 160 071 A (TEXTRON INC) 5 December 2001 (2001-12-05) column 9, lines 40-45 -----	1-11
A	DE 196 10 636 A (MANNESMANN AG) 18 September 1997 (1997-09-18) claims; figure 1 -----	1-11
A	US 5 879 115 A (MEDAL JAMES) 9 March 1999 (1999-03-09) abstract; figures -----	1-11
A	DE 21 13 807 A (SHUR LOK CORP) 23 December 1971 (1971-12-23) claim 1; figures -----	2
A	DE 39 11 741 A (LICENTIA GMBH) 18 October 1990 (1990-10-18) figure -----	1
A	DE 41 41 616 A (JAEGER EBERHARD GMBH) 24 June 1993 (1993-06-24) figure 1 -----	
A	US 6 153 035 A (VAN LAEKEN HOWARD J) 28 November 2000 (2000-11-28) figures -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NL2004/000724

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5536344	A	16-07-1996	NONE			
JP 54101878	A	10-08-1979	NONE			
DE 20105550	U	16-08-2001	DE	20105550 U1		16-08-2001
EP 1160071	A	05-12-2001	US AU BR CA EP JP	6454891 B1 4605601 A 0102219 A 2345893 A1 1160071 A2 2002028976 A		24-09-2002 06-12-2001 13-02-2002 02-12-2001 05-12-2001 29-01-2002
DE 19610636	A	18-09-1997	DE	19610636 A1		18-09-1997
US 5879115	A	09-03-1999	US US AU US WO US US US US US US US AU BR DE EP JP WO	5391031 A 5222850 A 5927396 A 6068718 A 9638677 A1 6068901 A 5672036 A 5769256 A 5861072 A 5697744 A 7109294 A 9406978 A 69422288 D1 0707688 A1 9502007 T 9501513 A1		21-02-1995 29-06-1993 18-12-1996 30-05-2000 05-12-1996 30-05-2000 30-09-1997 23-06-1998 19-01-1999 16-12-1997 24-01-1995 05-03-1996 27-01-2000 24-04-1996 25-02-1997 12-01-1995
DE 2113807	A	23-12-1971	BE CH DE FR GB NL	764702 A1 532207 A 2113807 A1 2085021 A5 1297339 A 7103879 A		16-08-1971 31-12-1972 23-12-1971 17-12-1971 22-11-1972 27-09-1971
DE 3911741	A	18-10-1990	DE	3911741 A1		18-10-1990
DE 4141616	A	24-06-1993	DE WO	4141616 A1 9312344 A1		24-06-1993 24-06-1993
US 6153035	A	28-11-2000	NONE			